

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

What is claimed is:

1. (Currently Amended) An elevator car positioning and control apparatus for use within an elevator hoist way having a rail mounted within the hoist way, comprising:

- (a) a first target mounted to the elevator car;
- (b) a second target mounted at a predetermined position within a pocket of said rail;
- (c) at least one sensor mounted to the elevator car; and
- (d) wherein said sensor senses said first target and generates a first control signal

corresponding to at least one of the elevator car's direction, speed or position, and senses said second target and generates a second control signal corresponding to at least one of the elevator car's landing zone, door zone, floor level or floor number,

and further wherein said first and second targets comprise magnets and, said at least one sensor ~~being capable of sensing a magnetic field~~ comprises a Hall effect sensor.

2. (Currently Amended) An elevator car positioning and control apparatus for use within an elevator hoist way having a rail mounted within the hoist way, comprising:

- (a) a target mounted within a pocket of said rail;
- (b) at least one sensor mounted on the elevator car; and

(c) wherein said sensor senses said target and generates a control signal corresponding to at least one of the elevator car's landing zone, door zone, floor level or floor number,

and further wherein said first and second targets comprise magnets and, said at least one sensor being capable of sensing a magnetic field comprises a Hall effect sensor.

3. (Withdrawn) An elevator car positioning and control apparatus for use within an elevator hoist way comprising:

- (a) mounting a radio frequency identification reader to the elevator car;
- (b) mounting at least one transponder at a predetermined position corresponding to a position of a floor within the elevator; and
- (c) using said reader to sense said transponder and generate a signal based upon the position of said reader relative to said transponder.

4. (Currently Amended) A method for controlling the operation of an elevator car within an elevator hoist way, the hoist way having a rail mounted therein, the method comprising the steps of sensing at least one of an elevator car's direction, speed, position, landing zone, door zone, floor level and floor number within an elevator hoist way, the method comprising:

- (a) positioning a first target on the elevator car;
- (b) positioning a second target within a pocket of a first and second said rail;
- (c) mounting at least one sensor on the elevator car; and

(d) generating a plurality of control signals corresponding to at least one of the elevator car's speed, direction, position, floor zone, door zone, floor level, and floor number, based on the position of the sensor relative to said first and second targets; and

(e) using a microprocessor to control the operation of said car based upon said control signals,

and further wherein said first and second targets comprise magnets and, said at least one sensor being capable of sensing a magnetic field comprises a Hall effect sensor.

5. (New) The apparatus of claim 1, further comprising a follower wheel attached to the elevator car, the follower wheel comprising a ring attached to said wheel wherein said first target is attached to said ring.

6. (New) The apparatus of claim 3, further comprising a follower wheel attached to the elevator car, the follower wheel comprising a ring attached to said wheel wherein said first target is attached to said ring.

7. (New) The method of claim 4, further comprising a follower wheel attached to the elevator car, the follower wheel comprising a ring attached to said wheel wherein said first target is attached to said ring.